

CombiView[™] DFON

Graphical display



Main features

- Graphical display with backlight
- Showing errors and limits by steady or flashing colours
- Fits Baumer CombiSerie[™] (80 mm)
- Hygienic design
- Option: Two configurable relay outputs
- Programmable by touch screen
- Easy and fully programmable with FlexProgrammer 9701

Applications

- Remote display fits for all
 - 4 20 mA transmitter

Input		User defined unit	8 x 20 pixels matrix
Measuring range	3.523 mA (normal working range 420 mA)	Dec. point position	xxxxx, xxxx.x, xxx.xx, xx.xxx, x.xxxx, x.xxxx, xxxxxx, AUTO
Connections	2 screw terminals for power (loop) 4 screw terminals for relay outputs	Relay	
		Contacts	2 solid state relays
Accuracy Loop voltage drop	≤ ±0.1% of input span within -1070 °C ≤ ±0.2% of input span within -3010 °C / 7080 °C Two levels depending on chosen backlight brightness @ 20 mA: - Low bright backlight (<40%): Max. 4V @23 °C - High bright backlight (>40%): Max. 6.5V @23 °C	Voltage	60 Vp
		Load Current	75 mA
		Max On resistance	10 Ohm
			The built in relays are not activated as standard. They can be activated at purchase or SW activation code can be purchased later.
		Display	
Sample time	≤ 1 second. Typical 0.3 second	Туре	FSTN Graphically LCD
Start-up time	≤ 5 second	Measuring range	-999999999
User-configurable data	1	Digit height	Max. 22 mm
Measuring range	420 mA	EMC data	
Error/warning indication	Individually configurable display and backlight indication in white, green or red colour, steady or flashing light. Configurable limits between 3.5 and 23 mA	Immunity	EN 61326
		Emission	EN 61326
		EMC immunity Influence	≤ ±1% of input FS
		Communication	
Zoom on range	Minimum 2 mA of input span	FlexProgrammer 2-way communication for configuration.	
Damping	030 seconds	Test conditions	
Linearization table	2 to 30 points	Operating temperature	23°C ± 2 °C
Measuring unit	°C, °F, °K	Approval Ex ia IIC T4/T5, ATEX II 1G (Preliminary)	
(standard selectable)	bar, mbar, kPa, MPa, psi, kg/cm2, mmHg, mH2O, atm, "Hg, mHg, "H2O, %, I/h, Ton, m3, m3/h, Hz, mS, mV, V, ohm, Hz, sec, %, mA, or user defined (programmable with FlexProgrammer)	Internal inductivity	Li < 10 μH
		Internal capacity	Ci < 25 nF
		Barrier data	U < 30 Vdc ; I < 0.1 A ; P < 0.75 W
		Temperature class	T1T5

Technical Data



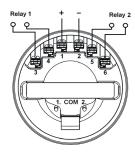
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Environmental condition	ns	
Optimal readability	-1070 °C	
Operating temperature	-3080 °C	
Storage temperature	-4085 °C	
Humidity	max. 98% RH, condensing	
Vibrations	According to IEC 68-2-6	
Mechanical tolerances	ISO 2768-m	
Mechanical data		
Dimensions	See dimensional drawing	
Material	Polycarbonate plastic	
Enclosure	ø 80 mm housing and front ring stainless steel, AISI 304	
Moulding compound	DP 460 (No silicone)	
Protection class	IP 10 on terminals IP 67 in ø 80 mm housing	
Weight	100 g - display alone 170 g - display incl. front ring 475 g - display in ø 80 mm housing for wall mounting	

Other data	
Temperature drift	≤ 0,001%/10K (inside optimal readability temperature range) ≤ 0,0015%/10K (outside optimal readability temperature range)
Power up time	≤ 15 sec.
Disposal of produc	t and packing
According to national	laws or by returning to Baumer.

Electrical connections



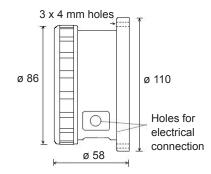
Terminal 1 - Supply + Terminal 2 - Supply -

Terminal 3 - Relay 1 Terminal 4 - Relay 1

Terminal 5 - Relay 2 Terminal 6 - Relay 2

Drawings / Dimensions in mm

DFON xxx11x



Selectable views



Value Small / Large



Analog w. Bar graph / Value



Bar graph Vertical / horizontal



Tank illustration Tank / Bottle

Visual alert



Status ok



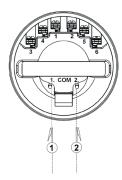
Alert status



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Programming

Connect the FlexProgrammer to the $CombiView^{TM}$, DFON as per below.



It is not necessary to disconnect the power to the *CombiView* $^{\rm TM}$, DFON display

The FlexProgrammer 9701 is a dedicated tool to Configure all Baumer configurable products.



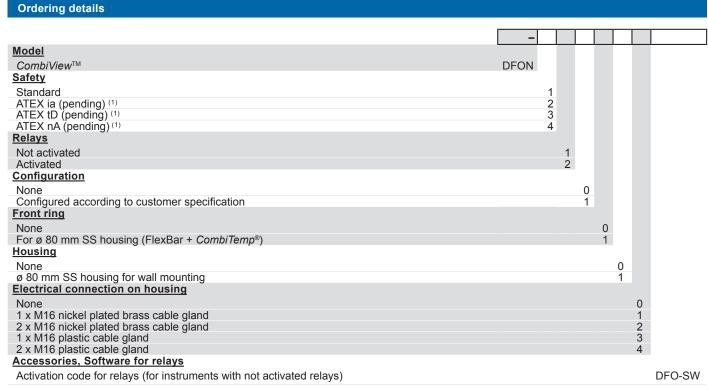
FlexProgrammer, No.: 9701.0001

The FlexProgrammer interface unit will be delivered complete including

- CD with FlexProgram software
- Product drivers (DTM-files)
- cables

The *CombiView™*, DFON can also be programmed by the touch bottoms on the display. Please see "Operating instructions for *CombiView™*, DFON".





(1) ATEX approvals is pending - expected Q3-12